## **CONSTRUCTION EQUIPMENT** SW-25850-2 MAVERICK VOLVO EC480E 315097 - DIESEL ENGINE

Sample No: VCP443489 **Oil Type:** 

VOLVO

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 Job No: SW-25850-2 MAVERICK

## SAMPLE INFORMATION

Sample Number	-	VCP443489	VCP423008			
Sample Date		02 Nov 2023	31 Jul 2023			
Machine Hours		1250	679			
Oil Hours		530	679			
Oil Changed		Changed	Changed			
Sample Status		ABNORMAL	ABNORMAL			
OIL CONDI	ΓΙΟΝ					
Visc @ 100°C	cSt	<b>12.2</b>	<b>1</b> 0.5			
Base Number (BN)	mg KOH/g	6.9	4.8			
Oxidation (PA)	%	67	72			
Soot %	%	■0.1	0.1			
Nitration (PA)	%	71	81			
Sulfation (PA)	%	57	60			
Glycol	%	NEG	NEG			
Fuel	%	<1.0	0.6			
Silicon	ppm	<b>10</b>	33			
Sodium	ppm	3	0			
Potassium	ppm	2	4			
VOLVO						

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Iron	ppm	8	14	 
Copper	ppm	<u> </u>	<u> </u>	 
Lead	ppm	0	1	 
Tin	ppm		2	 
Aluminum	ppm	3	3	 
Chromium	ppm	□<1	0	 
Molybdenum	ppm	65	84	 
Nickel	ppm	0	<1	 
Titanium	ppm	<1	<1	 
Silver	ppm	0	<b></b> <1	 
Manganese	ppm	□<1	3	 
Vanadium	ppm	<1	0	 

ADDITIVES							
Calcium	ppm	1276	2221				
Magnesium	ppm	807	84				
Zinc	ppm	1238	1175				
Phosphorus	ppm	991	954				
Barium	ppm	7	0				
Boron	ppm	<b>17</b>	27				
Boron	ppm	<b>I</b> 17					



#### **ARNOLD MACHINERY COMPANY**

2975 WEST 2100 SOUTH SALT LAKE CITY, UT US 84119 Contact: TONY PAYAN tpayan@arnoldmachinery.com T: (801)972-4000 F: (801)975-9434

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLV08770 Unique No: Signed: Report Date:

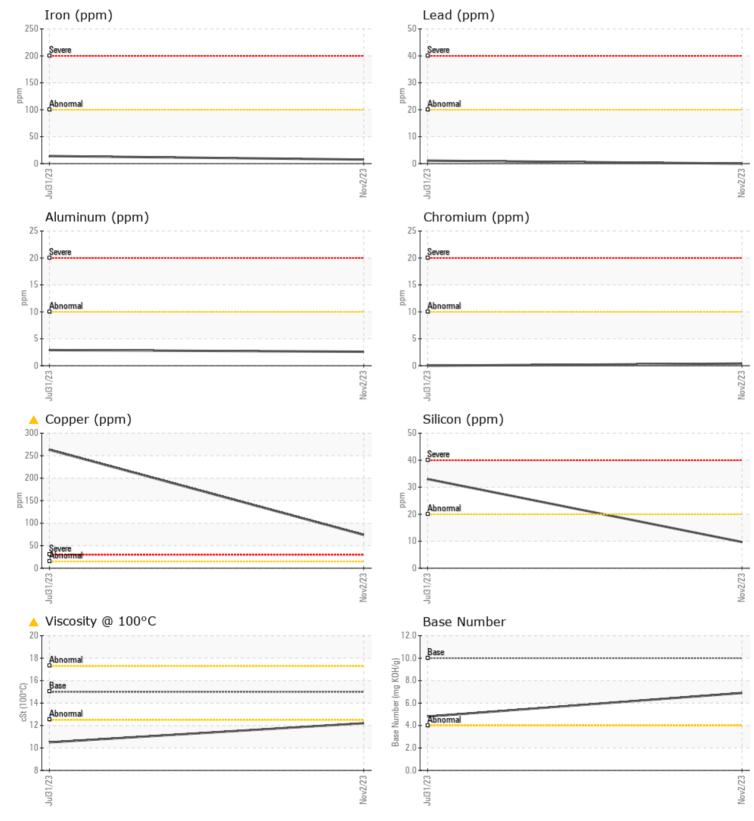
10737803 Don Baldridge 14 Nov 2023

# **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



Contact/Location: TONY PAYAN - VOLVO8770